

STANDARD FORM NO. 64

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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 7 January 1958

FROM :

SUBJECT: Contract

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1. General - A visit was made to [redacted] on 3 January 1958 for the purpose of monitoring Tasks 5 and 6 of the subject contract.

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2. Task 5, Radio Circuit Development - The morning session was devoted to a discussion of the non-conventional receiver and transmitter design.

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3. Progress - The company now appears to be well advanced in breadboard design despite considerable delay when component stability problems at -40°C were encountered. The undersigned reiterated that the specifications made available to the company were to serve as a guide only and that good stability at -20°C would be satisfactory (transistors are not reliable at -40°C). It was indicated, although not acknowledged, that serious mechanical problems have been encountered with the 3 gang barium titanate dielectric tuning condenser but that otherwise successful circuit performance has been achieved for the AFC local oscillator, the diode frequency divider for the BFO, and the AFC discriminator of the receiver. The transmitter is to have transistorized oscillator, buffer and driver stages. The output tube to deliver 4 watts has yet to be selected. A plan for antenna loading was described (30 to 1200 ohms \pm j1000). Power is to be a 12 volt battery supply with a DC to DC transistor converter for B plus. The loading indicator will be a $3/4$ " diameter peak reading meter recommended on this visit rather than a neon bulb.

4. Task 6 - Energy Sources Development - The afternoon session was principally devoted to thermocouple discussions with some talk on new battery development to be undertaken. Present were:

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7. Progress Reports - The company has not yet submitted a final report for Task 2 and is tardy in submitting bi-monthly reports for Task 6. The undersigned suggested that bi-monthly reports be taken from note books and need not be repetitious nor too detailed and that the next bi-monthly bring the company up to date with other bi-monthly reports for-given. [] instructed his engineers to have all reports up to date by 10 February 1958.

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8. Comment - With the fiscal year drawing to a close, [] concerned over their ability to meet the requirements for the hardware delivery. All the projects are very well staffed and with relaxing of the -40°C temperature stability requirement more a dynamic packaging schedule is anticipated.

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